

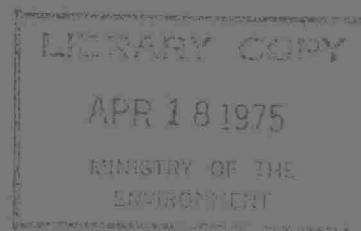
# OPERATING SUMMARY

TD227  
E33  
W38  
1973  
MOE

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## BEAR FALLS

WATER TREATMENT PLANT



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EAR FALLS

WATER TREATMENT PLANT

MINISTRY OF THE ENVIRONMENT

1973 ANNUAL OPERATING SUMMARY

prepared by  
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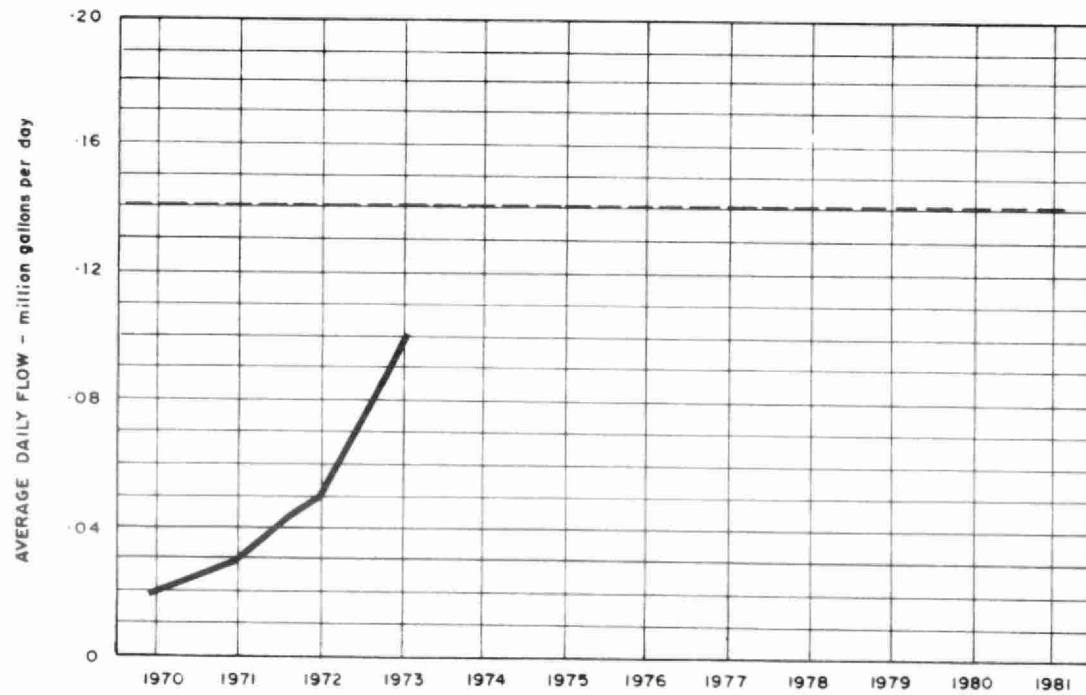
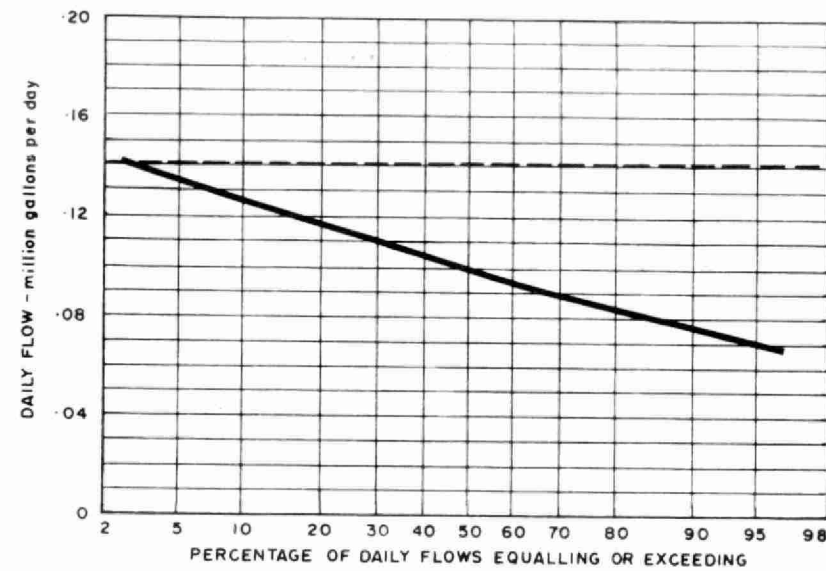
TD227  
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# PROCESS DATA FLOWS



## PLANT PERFORMANCE

MONTH	FLOWS				RAW WATER		TREATED WATER					
	TOTAL PLANT OUTPUT million gallons	AVERAGE DAILY FLOW million gallons	MAXIMUM DAY'S FLOW million gallons	MAXIMUM RATE mgd	TURBIDITY (AVERAGE) FTU	COLOUR (AVERAGE) App. units	TURBIDITY		COLOUR		TEMPERATURE	
							AVERAGE FTU	MAXIMUM FTU	AVERAGE App. units	MAXIMUM App. units	AVERAGE ° F	MAXIMUM ° F
JAN	2.97	0.10	0.13		2.4	20	2.6	2.9	30	30		
FEB	2.81	0.10	0.12		1.7	30	1.8	1.8	30	30		
MAR	2.86	0.09	0.10		1.5	30	1.8	1.8	30	30		
APR	3.79	0.13	0.11		2.3	40	2.4	2.4	40	40		
MAY	2.86	0.09	0.12		2.8	30	3.0	3.0	40	40		
JUNE	3.44	0.11	0.15									
JULY	3.15	0.10	0.14		6.9	40	7.4	7.7	28	40		
AUG	3.08	0.10	0.15									
SEPT	2.49	0.08	0.10									
OCT	2.48	0.08	0.11		6.1	45	6.2	6.7	40	40		
NOV	3.21	0.11	0.14		7.4	50	7.3	7.3	20	20		
DEC	3.90	0.12	0.16									
TOTAL	37.04											
AVG.		0.10	MAXIMUM 0.16	MAXIMUM	4.2	37	4.1	MAXIMUM 7.7	32	MAXIMUM 40		MAXIMUM

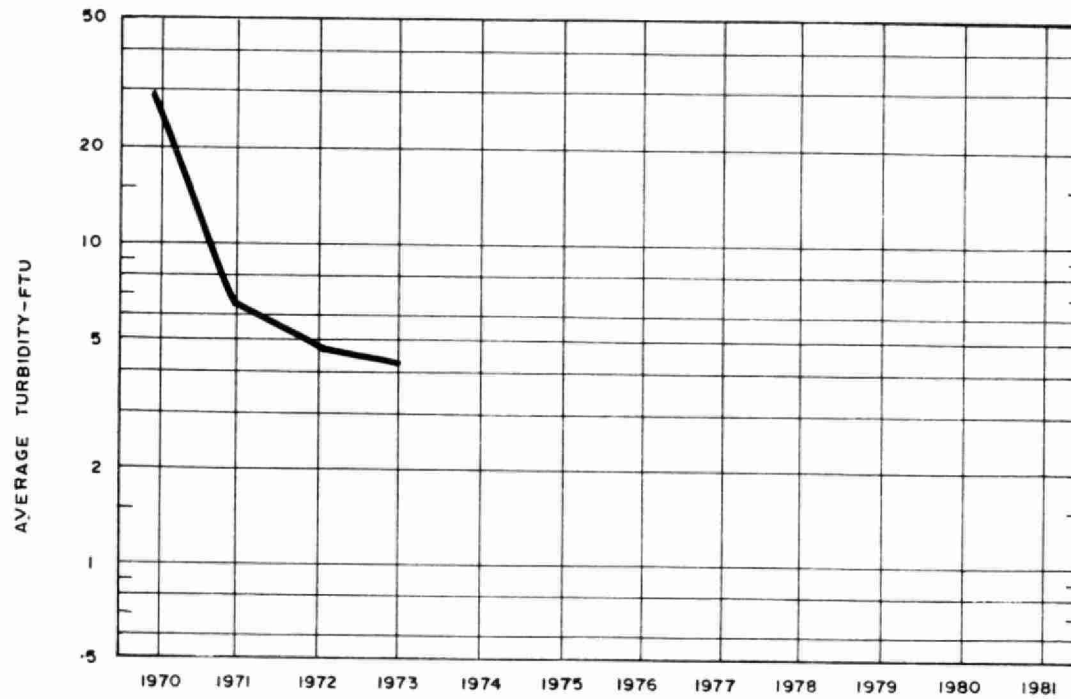
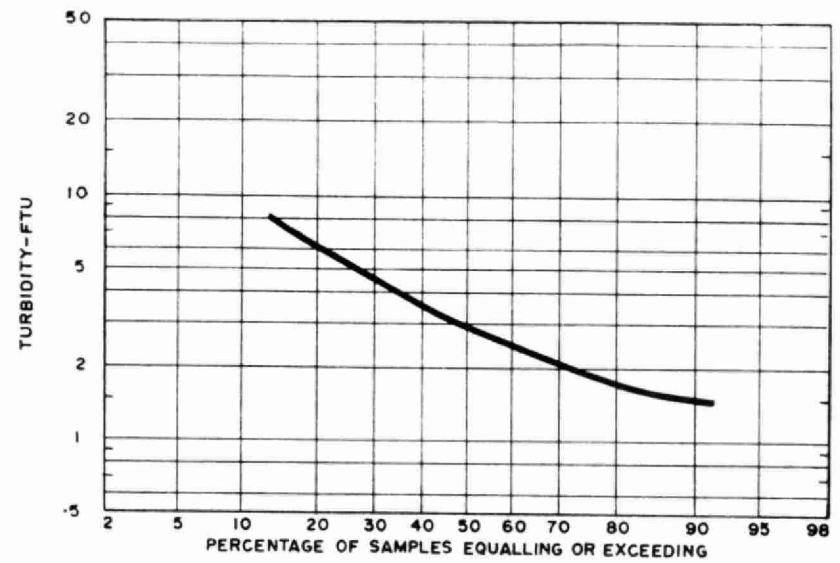
## CHLORINATION and DISINFECTION

MONTH	RAW WATER					PLANT EFFLUENT		DISTRIBUTION SYSTEM		CHLORINATION			
	NUMBER OF SAMPLES HAVING TOTAL COLIFORM ORGANISMS PER 100 ml OF					NUMBER OF SAMPLES TAKEN	NUMBER HAVING COLIFORM ORGANISMS	NUMBER OF SAMPLES TAKEN	NUMBER HAVING COLIFORM ORGANISMS	TOTAL AMOUNT OF NaOCl USED gallons	DOSAGE		RESIDUAL IN PLANT EFFLUENT mg/l
	0	1 - 3	4 - 32	33 - 320	> 320						PRE - mg/l	POST - mg/l	
JAN	6	0	0	0	0	4	0	2	0	35		1.4	0.4
FEB	4	1	0	0	0	3	0	0	0	32		1.3	
MAR	5	0	0	0	0	5	0	0	0	36		1.5	
APR	2	1	1	0	0	3	0	1	0	33		1.1	
MAY	0	0	0	0	0	0	0	0	0	40		1.7	0.9
JUNE	1	2	3	1	0	2	0	6	0	61		2.1	0.6
JULY	0	0	3	2	0	1	0	4	0	67		2.5	0.2
AUG	1	0	1	1	0	0	0	3	0	73		2.8	0.4
SEPT	0	1	3	0	0	3	0	1	0	74		3.6	0.4
OCT	0	2	2	1	0	2	0	2	0	76		3.7	0.5
NOV	1	5	1	0	0	7	0	17	3	n/a			0.5
DEC	0	1	3	0	0	1	0	3	0	n/a			0.4
TOTAL	20	13	17	5	0	31	0	39	3				
AVG.	3 (NOTE - Average shown is the GEOMETRIC MEAN)									1.8		2.1	0.5

Note: n/a = not available



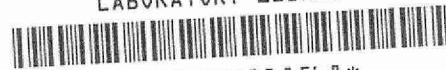
# TURBIDITY



## WATER QUALITY

PROPERTY	RAW WATER				TREATED WATER				DESIRABLE STANDARDS
	NUMBER OF SAMPLES	AVERAGE	MAXIMUM	MINIMUM	NUMBER OF SAMPLES	AVERAGE	MAXIMUM	MINIMUM	
HARDNESS in mg/l as $\text{CaCO}_3$	9	39	44	34	12	39	44	34	80 - 100
ALKALINITY in mg/l as $\text{CaCO}_3$	9	38	42	34	12	38	43	31	30 - 100
IRON in mg/l Fe	9	.37	.70	.15	12	.35	.70	.20	Less than 0.3
CHLORIDE in mg/l $\text{Cl}^-$	9	<1	<1	<1	12	1	8	<1	Less than 250
pH in pH units	9	7.4	7.7	6.6	12	7.4	7.8	6.9	7.0 - 8.5

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Ear Falls water

treatment plant : operating asqq

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